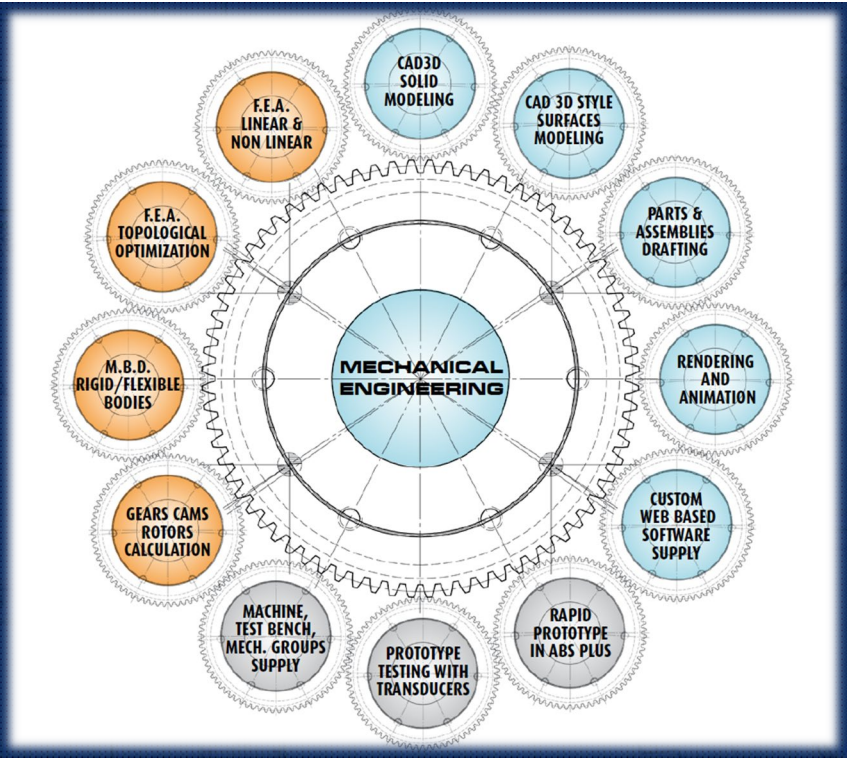
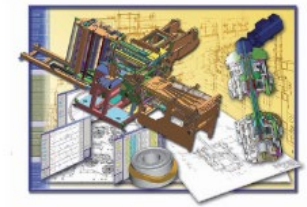
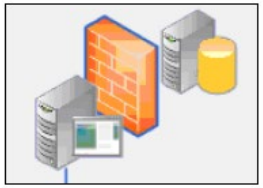
MECHANICAL ENGINEERING SOLUTION PROVIDER



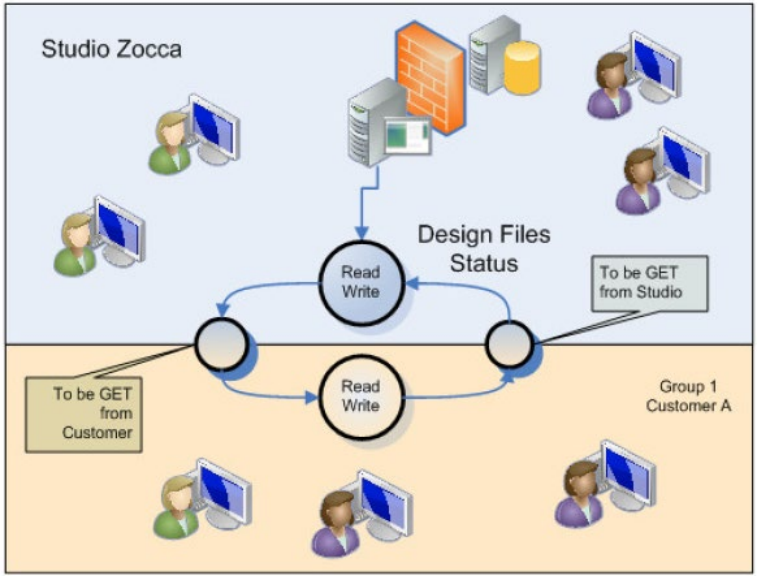
DESIGN TO CUSTOMER

D2C	Il software sviluppato al nostro interno per ottimizzare gli scambi di file fra cliente e Studio Zocca. E' molto di più di un semplice FTP. **Permette di lavorare da sedi fisicamente lontane.** Il cliente vede il lavoro svolto in tempo reale ed è in grado di prendere decisioni.
GESTIRE I PROGETTI DA SEDI LONTANE	Gestire i progetti CAD all'interno del rispettivo gruppo di progettisti e disegnatori **che collaborano in due sedi fisicamente separate sfruttando la rete Internet.**
TRACCIARE I DATI	Gestire la comunicazione dei principali eventi come le operazioni di upload e download dei file da parte dei vari componenti del gruppo di progettisti **e invio di certificati di notifica tramite e-mail.**
SINCRONIZZARE I DATI	Controllare la coerenza di legami e riferimenti tra i file dello stesso progetto in possesso dei vari gruppi di lavoro **che collaborano da sedi diverse.**
PERSONALIZZARE IL SOFTWARE	Possibilità di sviluppare estensioni e personalizzare l'ambiente software alle esigenze del cliente.
SICUREZZA	Controllo diretto dello Studio Tecnico Zocca tramite proprio hosting e potenti firewall anti intrusione di pirati informatici.



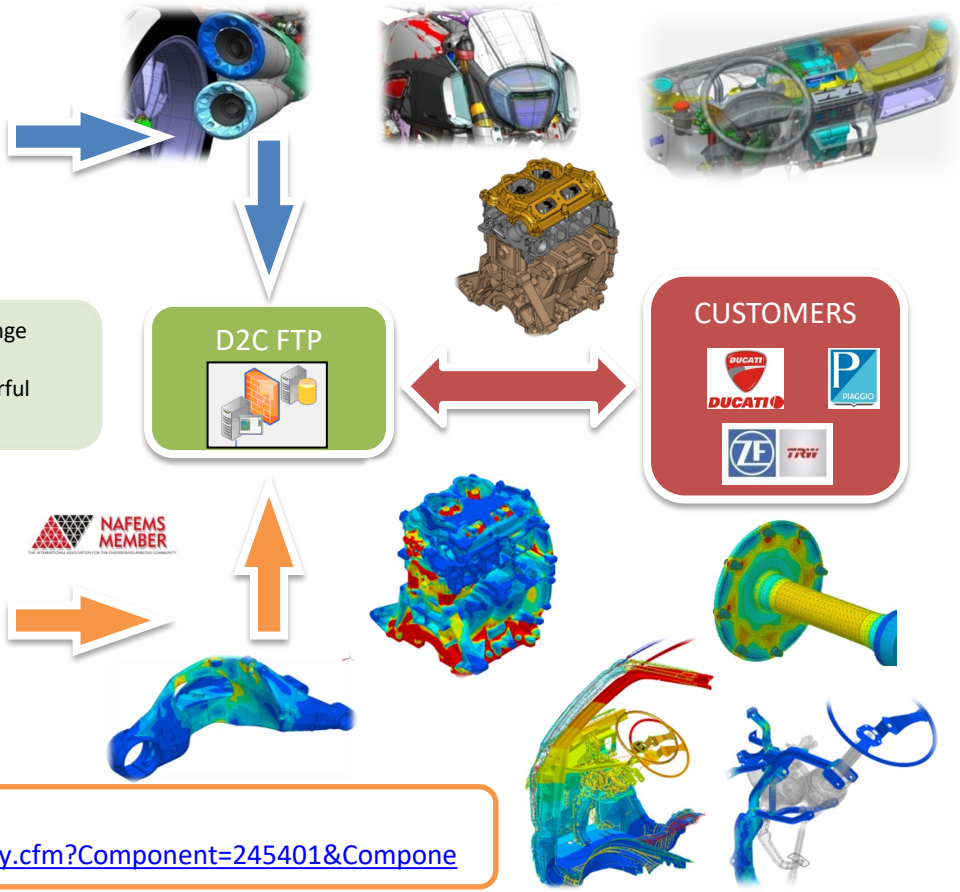


PROGETTAZIONE ⟷ D2C ⟷ CLIENTE



MECHANICAL ENGINEERING SOLUTION PROVIDER

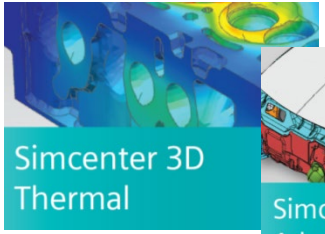
PART , ASSEMBLY SOLID MODELING & DRAWINGS	•Siemens NX, Parametric CREO, SolidEDGE, SolidWORKS, Inventor.
DESIGN OF PARTS WITH ADVANCED SURFACING	•Siemens NX, Parametric CREO.
REVERSE ENGINEERING	•Siemens NX, Parametric CREO.
D2C - ST Zocca FTP	•Software developed internally for optimizing the exchange of files with customers. •Direct control throught our hosting firewall with powerful anti-intrusion features.
STRUCTURAL FEM AND TOPOLOGY OPTIMIZATION	•Siemens NX Nastran, LMS Samtech, • Ansys CREO.
DYNAMIC ANALYSIS OF RIGID AND FLEXIBLE BODY	•Siemens NX Nastran, LMS Samtech.
CFD , THERMAL AND MULTYPHISICS	•Siemens NX Nastran, LMS Samtech.

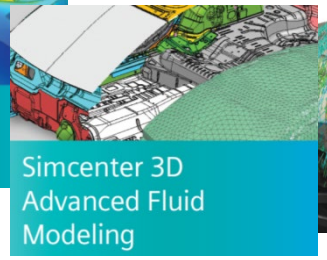


Read our case history with Siemens Simcenter technology at:
http://www.plm.automation.siemens.com/en/about_us/success/case_study.cfm?Component=245401&Compone

MECHANICAL ENGINEERING SOLUTION PROVIDER

STRUCTURAL FEM LINEAR AND NON LINEAR	•Siemens NX Nastran, LMS Samtech.
DYNAMIC ANALYSIS OF RIGID AND FLEXIBLE BODY	•Siemens NX Nastran, LMS Samtech, •Ansys CREO.
CFD , THERMAL AND MULTYPHISICS	•Siemens NX Nastran, LMS Samtech.

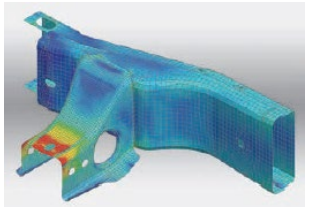




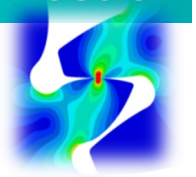
Analysis type	Available add-on modules for Simcenter 3D Structures
Durability	Simcenter 3D Durability
Dynamic response	Simcenter 3D Response Dynamics
Laminate composites modeling Laminate composites draping	Simcenter 3D Laminate Composites
Thermal analysis	Simcenter 3D Thermal Simcenter 3D Advanced Thermal Simcenter 3D Space Systems Thermal Simcenter 3D Thermal/Flow DMP
CFD or flow analysis	Simcenter 3D Advanced Fluid Modeling Simcenter 3D Flow Simcenter 3D Advanced Flow Simcenter 3D Thermal/Flow DMP
Acoustics	Simcenter 3D Acoustics Modeling Simcenter 3D Acoustics BEM Solver NX Nastran Advanced Acoustics
Motion	Simcenter 3D Motion Modeling Simcenter 3D Motion Solver Simcenter 3D Motion Flexible Body Simcenter 3D Motion Control Simcenter 3D Motion Standard Tire Simcenter 3D Motion CD Tire Simcenter 3D Motion TNO MF Tire Simcenter 3D Motion TNO MF Swift Tire
Multiphysics	
Coupled thermo-fluid analysis	Simcenter 3D Electronic Systems Cooling Simcenter 3D Flow/Advanced Flow with Simcenter 3D Thermal/Advanced Thermal
Coupled thermal-mechanical analysis	Simcenter 3D Thermal with NX Nastran
Vibro-acoustics	Simcenter 3D Acoustics Modeling with NX Nastran Advanced Acoustics
Motion-structural analysis (motion with flexible bodies)	Simcenter 3D Motion Modeling + Simcenter 3D Motion Solver + Simcenter 3D Motion Flexible Body + NX Nastran

Solution types supported by NX Nastran – Basic

SOL Number	SOL Name	Description
101	SESTATIC	Linear statics
103	SEMODES	Normal modes
105	SEBUCKL	Buckling
106	NLSTATIC	Nonlinear or linear statics
114	CYCSTATX	Cyclic statics
115	CYCMODE	Cyclic normal modes
116	CYCBUCKL	Cyclic buckling
129	NLTRAN	Nonlinear or linear transient response
153	NLSCSH	Static structural and/or steady state heat transfer analysis
159	NLTCSH	Transient structural and/or transient heat transfer analysis



NX Nastran



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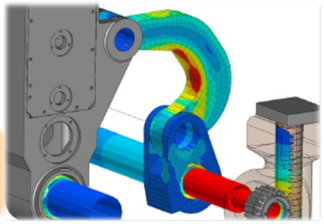
NAFEMS MEMBER

MECHANICAL ENGINEERING SOLUTION PROVIDER

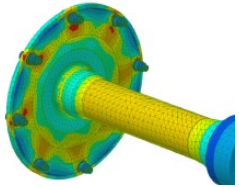
STRUCTURAL FEM LINEAR AND NON LINEAR	•Siemens NX Nastran, LMS Samtech.
DYNAMIC ANALYSIS OF RIGID AND FLEXIBLE BODY	•Siemens NX Nastran, LMS Samtech, •Ansys CREO.
CFD , THERMAL AND MULTYPHISICS	•Siemens NX Nastran, LMS Samtech.

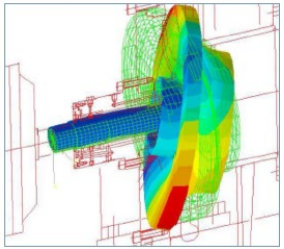
The right solution for any nonlinear application

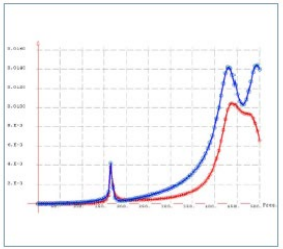


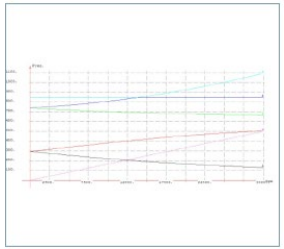
LMS Samtech Samcef Rotors

Dedicated solutions for fast-rotating machinery





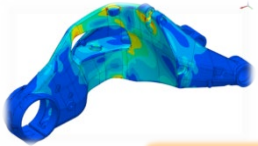


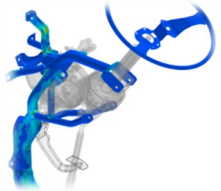


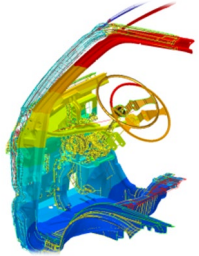
LMS Samtech

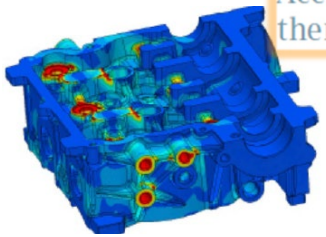
Providing realistic virtual simulation

Linear analysis for all structure types

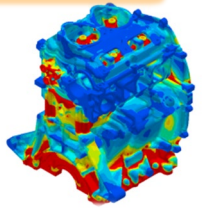








Accurately calculating thermal effects



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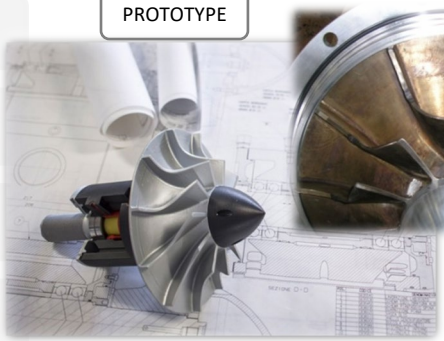
http://www.plm.automation.siemens.com/en/about_us/success/case_study.cfm?Component=245401&Compone

NAFEMS MEMBER

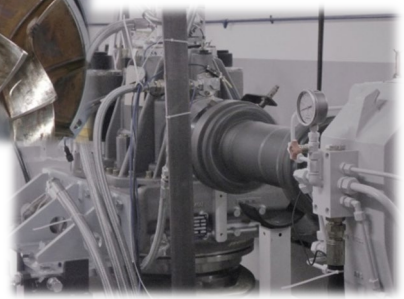
MECHANICAL ENGINEERING SOLUTION PROVIDER

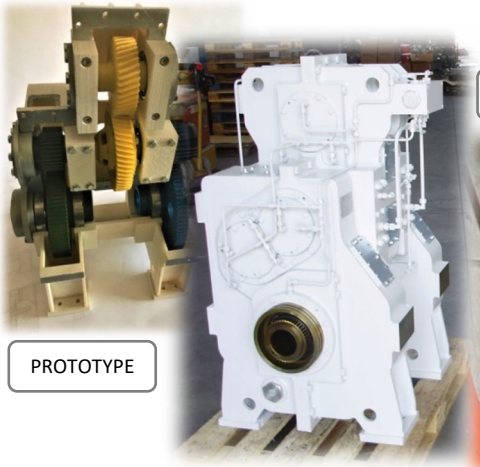
RAPID PROTOTYPING	•We are able to supply parts realized with rapid prototyping of different technologies
COMPONENT TESTING	•Use of test rigs for gears •Accelerometers and data acquisition with National Instruments software.
PROTOTYPE CONSTRUCTION	•Supply of mechanical groups, components for pre-production series.
3D SCAN REVERSE ENGINEERING	•Scan real components to get .stl or cad model

PROTOTYPE



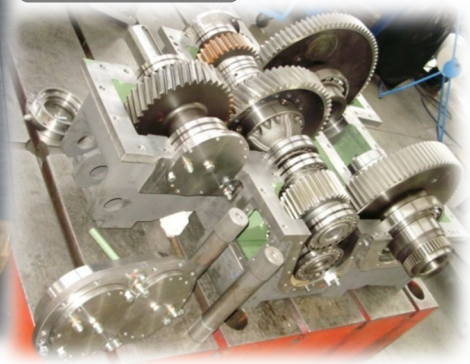
REAL COMPONENTS

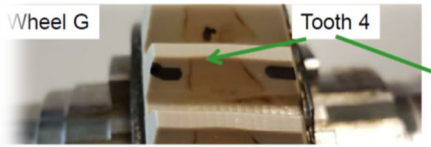


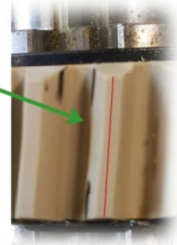


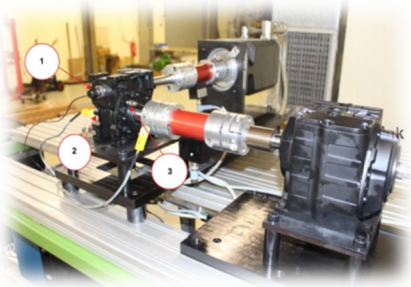
PROTOTYPE

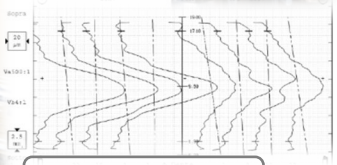
REAL COMPONENTS











COMPONENT TESTING

RETE ALTA TECNOLOGIA EMILIA-ROMAGNA HIGH TECHNOLOGY NETWORK

L'appartenenza alla **Rete dei Laboratori Alta Tecnologia della Regione Emilia Romagna**, determina una serie di vantaggi a favore dei clienti dello **Studio Tecnico Zocca**

Bandi di R&S promossi dalla Regione Emilia Romagna: i Laboratori della Rete Alta Tecnologia sono fornitori qualificati, questa condizione consente alle aziende con le quali collaborano e che presentano un progetto, punteggi aggiuntivi fondamentali per la finanziabilità di un progetto e spesso sono fornitori obbligatori. Inoltre la Regione emana bandi riservati ai Laboratori delle Rete Alta Tecnologia sia in forma singola che in parternariato con altri laboratori.

In qualità di laboratorio appartenete alla Rete Alta Tecnologia lo Studio Tecnico Zocca diventa fornitore qualificato per:

Credito d'Imposta R&S e Innovazione con un vantaggio cliente in credito d'imposta del costo rendicontato con lo Studio

Formazione 4.0 come docente ammissibile sulle tematiche dell'industria 4.0 quali simulazione, prototipazione rapida, sistemi di visualizzazione, realtà aumentata e virtuale, robotica avanzata e collaborativa, manifattura additiva (o stampa 3D) e IOT.

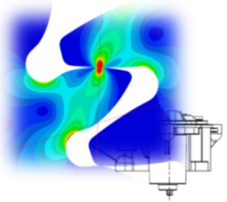
Fondi Interprofessionali: fornitore qualificato con bandi anche dedicati a fornitori accreditati riconosciuti come enti di ricerca.

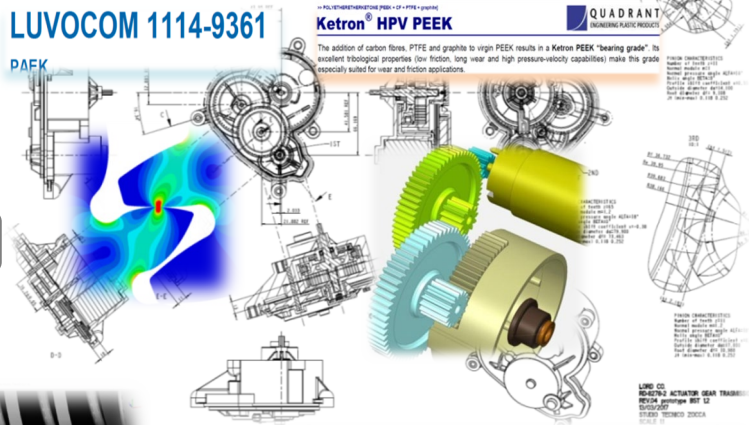
Di fatto ogni attività commissionata alla Studio Tecnico Zocca, avente caratteristiche compatibili (R&D), può essere rendicontata o presentata su un bando di agevolazione e cofinanziata con fondi natura pubblica.

MECHANICAL ENGINEERING SOLUTION PROVIDER

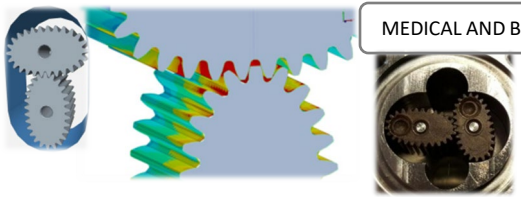
DESIGN PHASE	•Design of complete trasmission. Choice of plastic material of gears
CALCULATION PHASE	•Calculation of gears. Check for bending stress and wear. Optimization of gear profiles based on tolerances of productions of gears and cases.
INDUSTRIAL PARTENERS AND CONSTRUCTION PHASE	•A grid of supplier and collaborators cooperate with us. **Lehmann & Voss &Co, QUADRANT A.G**.
DEVELOPING RESEARCH	•Work side by side with research center as ENEA and CNR

AUTOMOTIVE SECTOR





MEDICAL AND BEVERAGE SECTOR

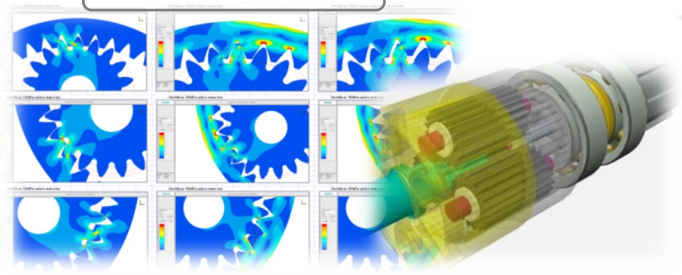


RESEARCH CENTERS

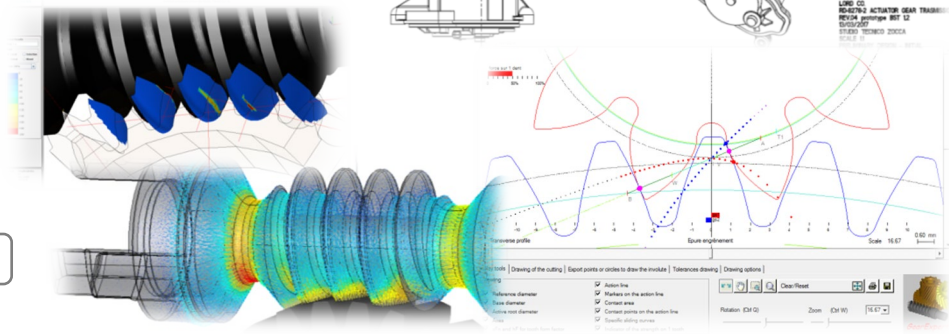
Consiglio Nazionale delle Ricerche

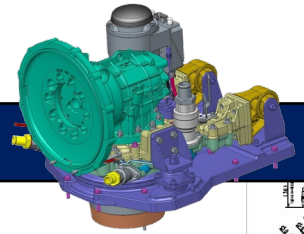
ENEA
Ente per le Nuove tecnologie, l'Energia e l'Ambiente

HOME AUTOMATION SECTOR



INDUSTRIAL SECTOR





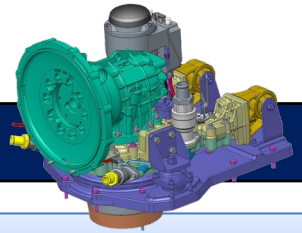
POWERTRAIN

STUDIO TECNICO Zocca

Marine trasmission

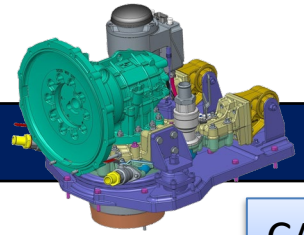
FASE DI MODELLAZIONE E DISEGNO

Reserved and confidential document - www.studiozocca.com



Marine trasmission

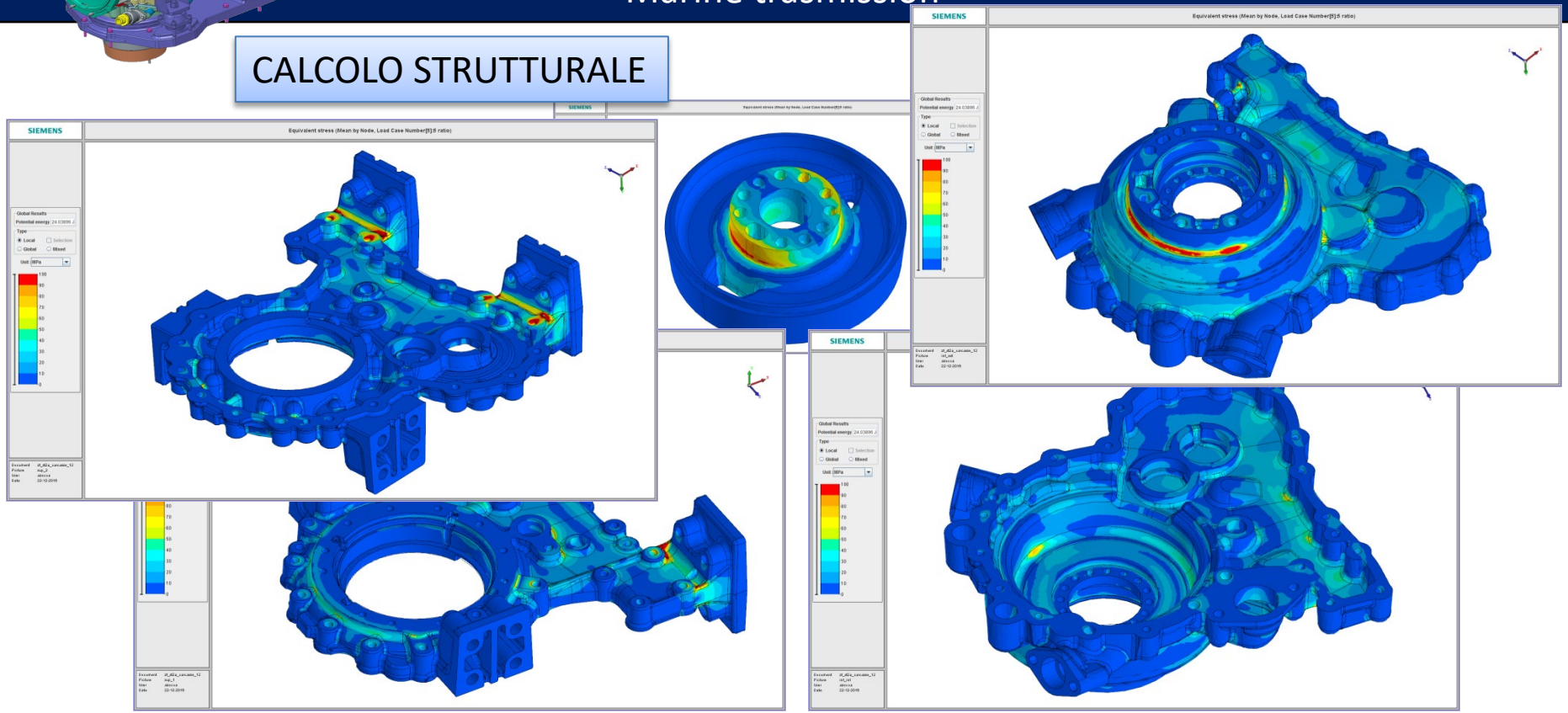
STUDIO MODELLO E ANIME



POWERTRAIN

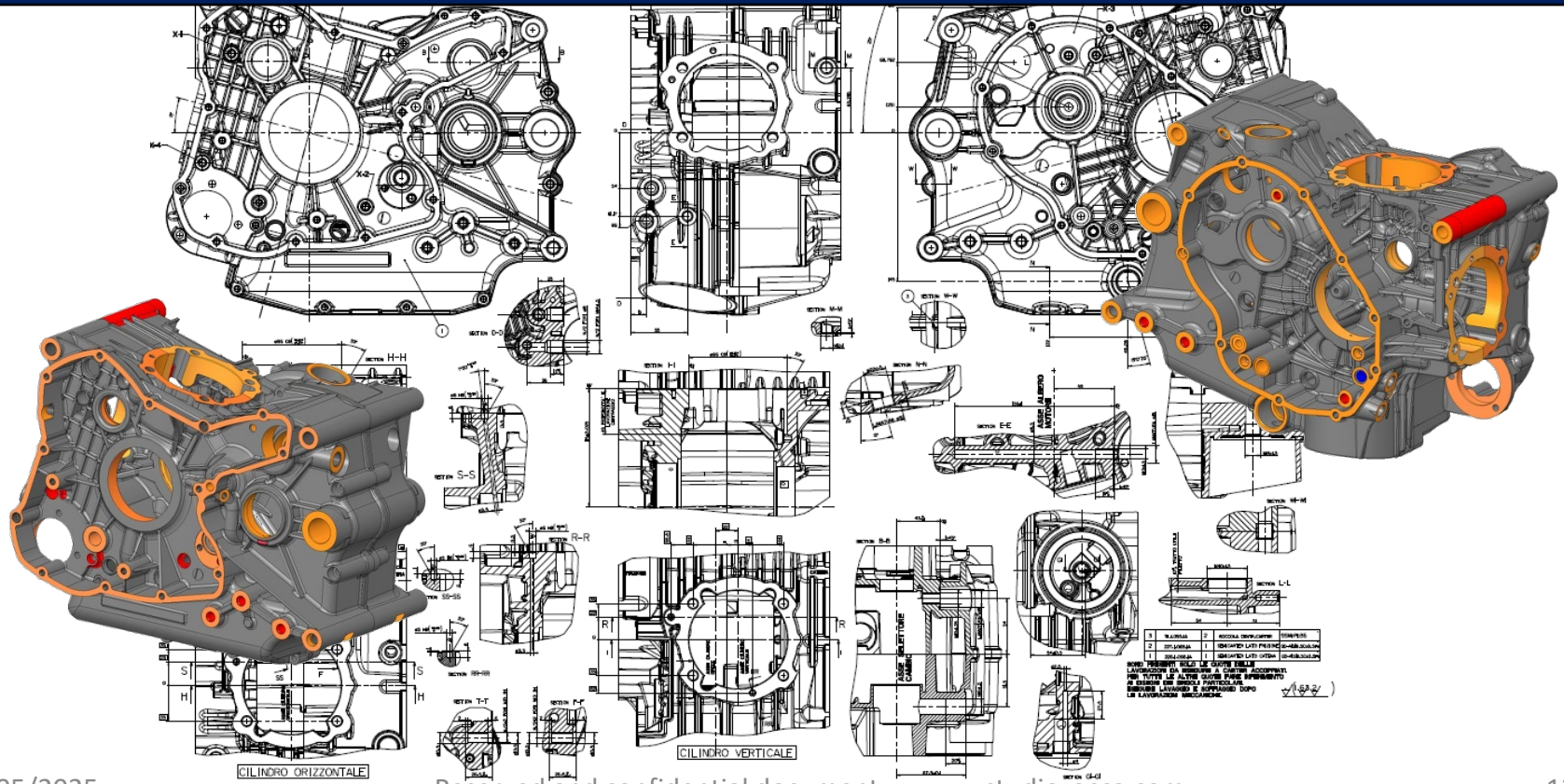
Marine trasmission

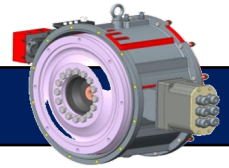
CALCOLO STRUTTURALE



POWERTRAIN

Engine parts and assembly

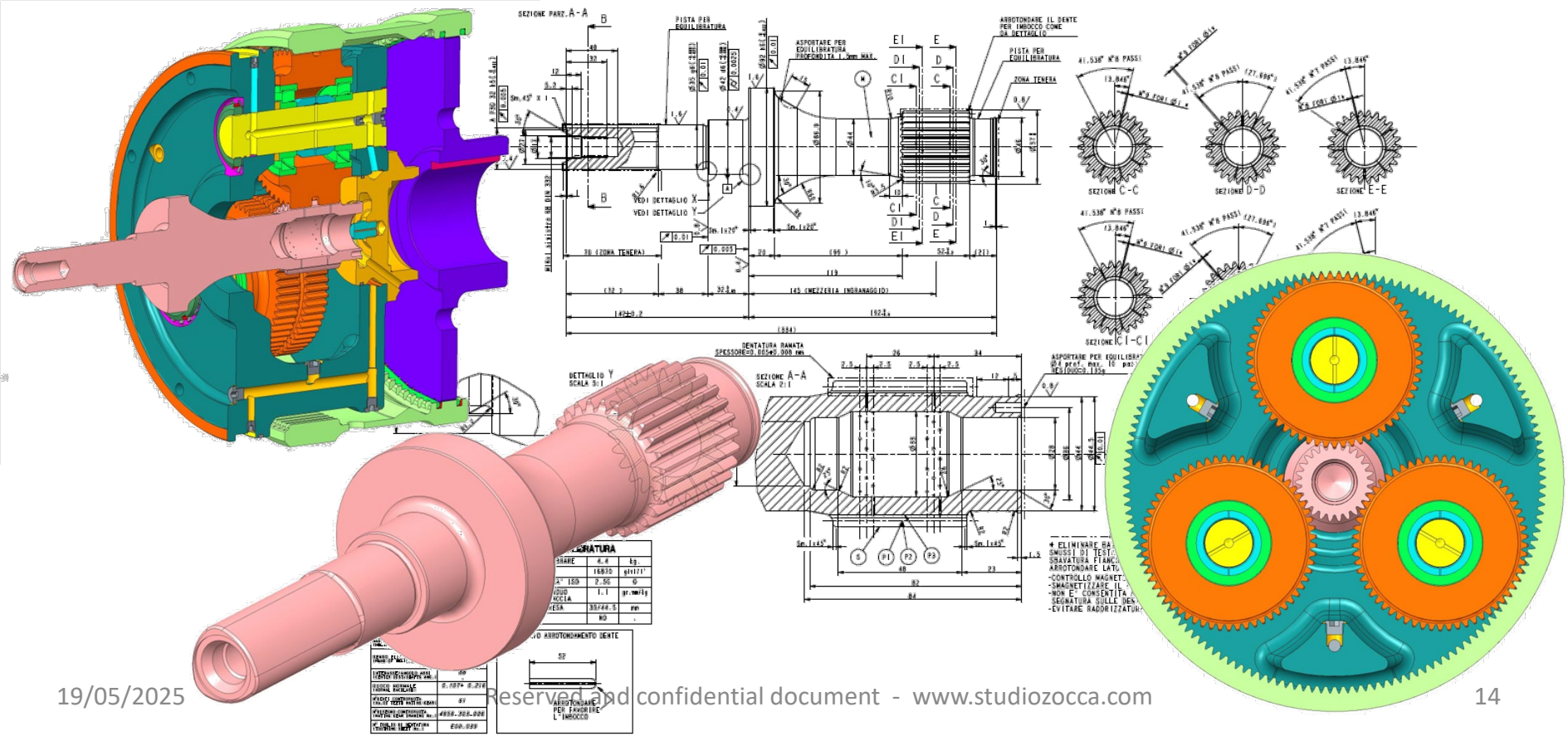




Hybrid trasmission assembly

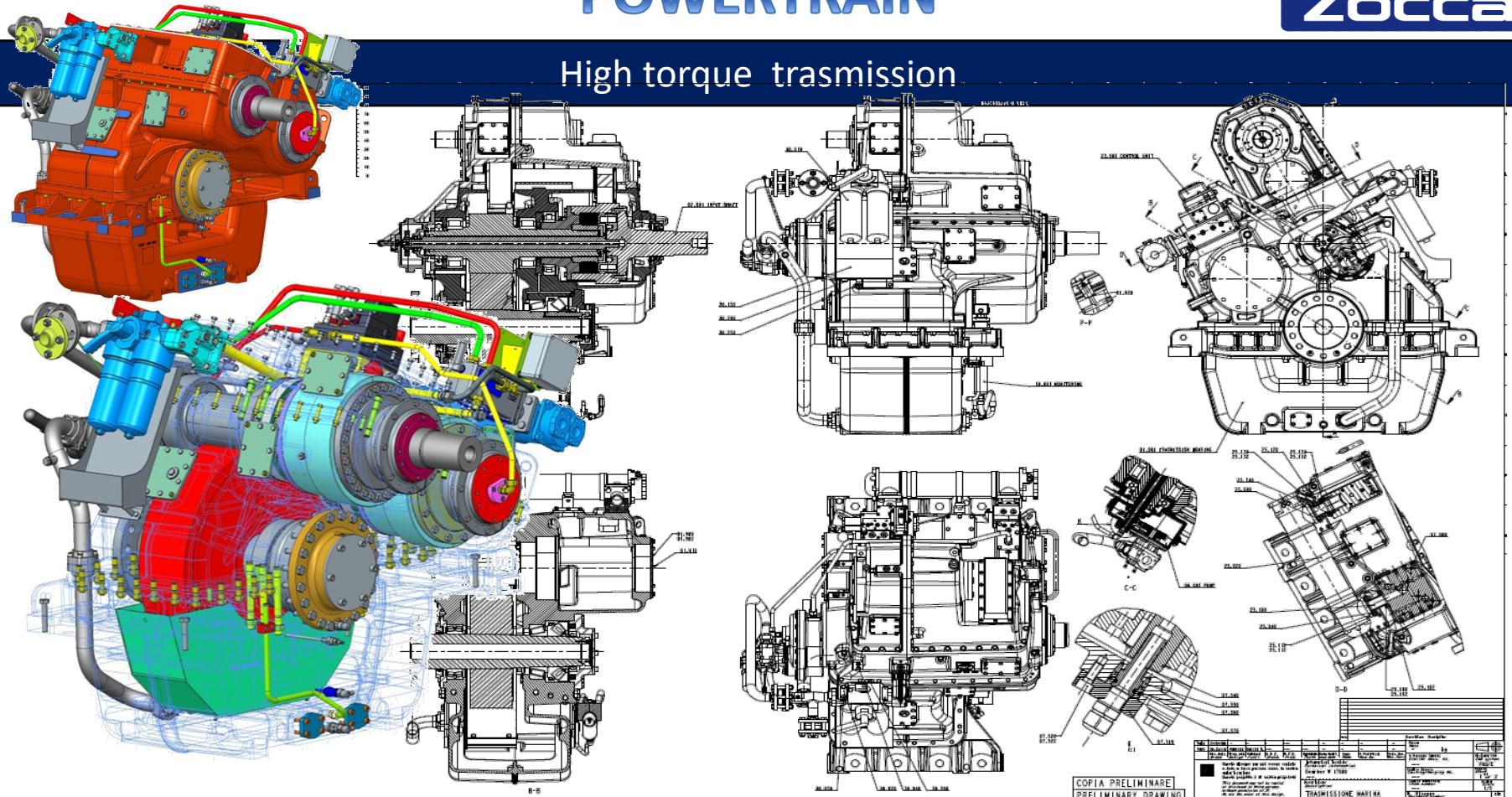
POWERTRAIN

High speed trasmission



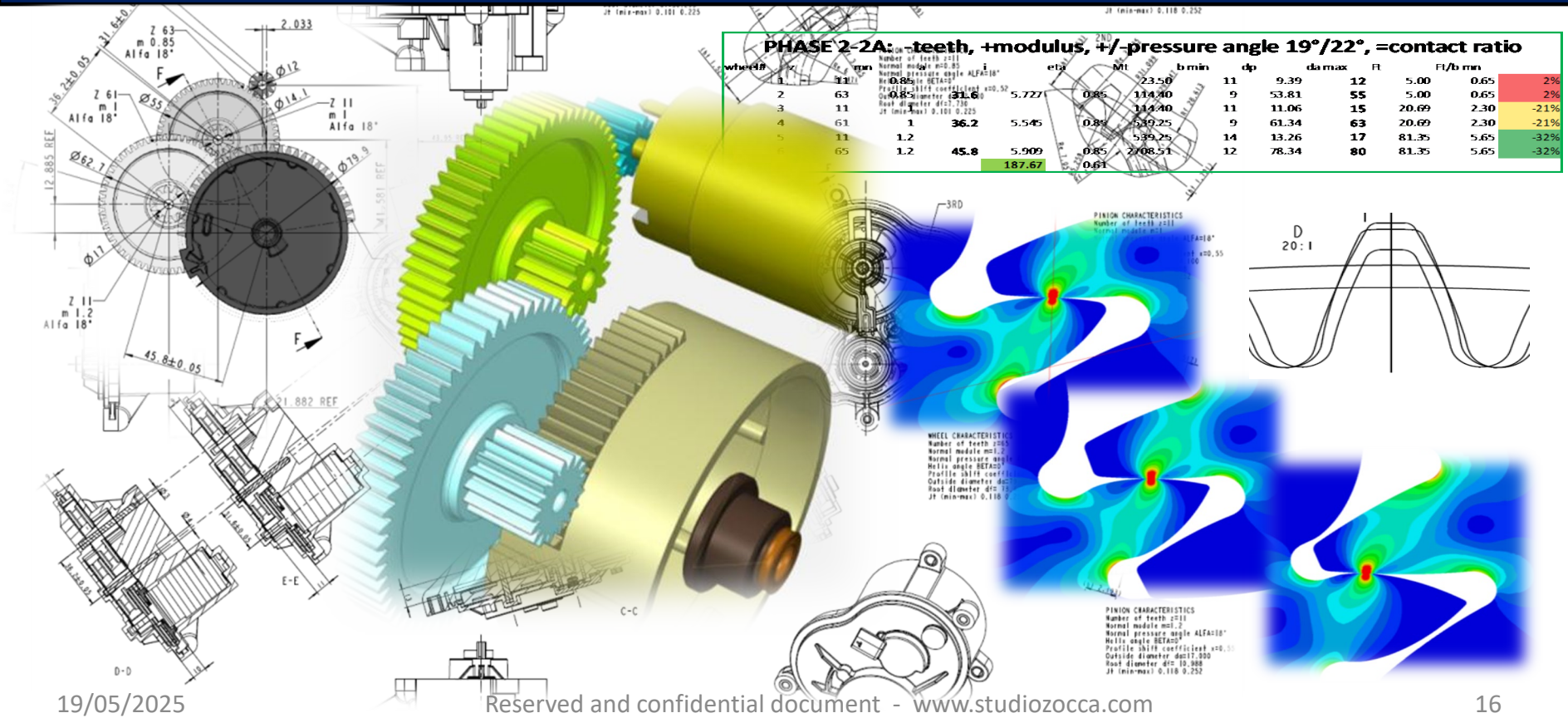
POWERTRAIN

High torque trasmission



PLASTIC GEARS - AUTOMOTIVE

3 Stage Gearbox trasmission



THANK YOU FOR YOUR ATTENTION

http://www.studiozocca.com/

RETE ALTA TECNOLOGIA
EMILIA-ROMAGNA
HIGH TECHNOLOGY NETWORK